

CASE STUDY

Bet on Red

People enter large commercial and corporate buildings every day, like hospitals, resorts, casinos, or major multi-company office buildings, and if you are a security or safety stakeholder for one of these buildings or companies, then you know all too well that there are extensive lists of persons whom you need to be notified when they enter the premises. Whether it's a VIP, a disgruntled former employee, or a known criminal, it is vital their presence is known.

CLIENT CHALLENGE

During a recent install of Vintra's on-premises real-time analytics solution, FulcrumAI, at a large enterprise customer's facility that experiences extremely high foot traffic at all hours of the day and night, our solution was put to the test. After easily uploading staff headshots into the solution, along with a handful of individuals on an existing BOLO list, the customer requested we run a test on the interior cameras from 17:30 to 07:00 to determine how many unique faces would be detected, and how many false-positive detections the solution would accrue.

Among other hits on the ensuing BOLO list search, there was a positive match on a woman who frequents the premises for illicit purposes. An old mugshot was used as the reference photo, and although the woman's hair was a different color and styled so it that partially occluded her face, she was still correctly identified as a member of the Blocklist. In a real-time scenario, the appropriate persons would be notified and she would be quickly escorted from the premises.

In total, the 13.5 hour test produced 11,000 unique face detections and a greater than 95% accuracy rate on the customer's BOLO list.

FULCRUMAI RUNS AT 3X SPEEDS OF OUR MAJOR COMPETITORS AND GIVES CUSTOMERS MORE CONTROL AND DEPLOYMENT OPTIONS.

LADY IN RED

Upon seeing the results from the BOLO test, a handful of CXOs entered the command center and, on a whim, requested that our engineers showed how the solution would work on the exterior cameras — which were deemed more challenging. They, at random, asked to be shown all women wearing red on the lower half of their body who used a busy entryway during the test time period. Much to their satisfaction, the first page of search results was full of unique detections of women wearing red clothing on their lower body. This type of search, if done manually, can lead to hours upon hours of manual video review.

CASE STUDY (CONT.)

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These events are not relegated to the enterprise sector. In the fall of 2018, a California man went missing after attending a pro-sports game. The police and security team involved subsequently spent hundreds of hours reviewing video from surveillance cameras and collected video (including from mobile phones), attempting to find the man and piece together his postgame path. This process, the time, and resources required are unfortunately all too common in the world of security and investigations.

CONCLUSION

Vintra's total-environment solution, FulcrumAI, empowers both real-time and post-event search, mitigates risk and reduces security threats in real-time, while also empowering investigators with tools to resolve incidents exponentially quicker. Because the solution works on any existing camera the customer owns or intends to purchase in the future (such as drones, body cams, etc.), the only hardware investment needed are GPU-capable servers that can be purchased from any major hardware vendor.

In addition to the cost savings, Vintra's solution has been built from the ground up using our very own deep learning platform. What does this mean? A bunch of technical, nerdy, things, but in the end, our solution runs at 3x speeds of our major competitors and gives customers more control and deployment options in order to fully meet a security team's complex needs. When betting on red, it helps to know exactly when red shows up.

FREE TRIAL

*Do you want to Know What the Cameras Know?
Click the button to start your free trial today.*